



the **ILLINOIS ENGINEER**



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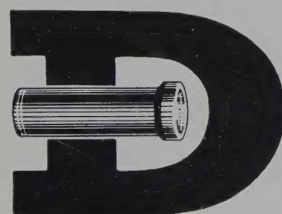
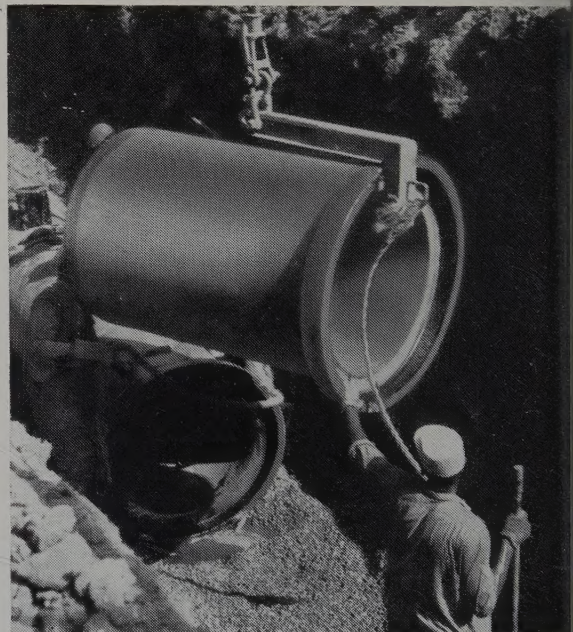
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PRESIDENT'S MESSAGE

By FRANK W. EDWARDS

TO YOUNG ENGINEERS

November is designated Young Engineer's Month by the National Society of Professional Engineers. I.S.P.E. members, also, are greatly interested in young engineers. We wish you success in your chosen profession and we offer assistance to you in overcoming our failures of the past.

All young engineers should be dedicated to advancement of the profession. If any of you are not, you should seek without delay other outlets for your energy. Two principal aspects of development are important to you, your profession, and to the general public. They are:

- a. Technical advancement.
- b. Professional development.

As the late William E. Wickenden* pointed out, there is a mile of compulsion, that round of daily tasks, which must be traveled if one is to earn a livelihood. There is, however, a second mile, beyond the call of necessity, where the durable satisfactions of life are found. This second mile which traverses both technical and professional development lies beyond your college education.

Formal college education, consisting of courses in basic science, engineering applications and social studies may be likened to a formal reception. You pass along the receiving line where you are introduced to many people. After reaching the end you join a small group where you become acquainted only to a slight degree. Likewise in college you are exposed to numerous subjects. You linger while in the basic sciences and other courses, but there is insufficient time to become well acquainted with the various engineering applications. Although college work introduces you to engineering and social studies, lack of time limits comprehension. If these subjects, like the people in the receiving line, are to become your real friends you must become closely acquainted with them.

The following is a brief outline which might be considered an ideal method for gaining that close association after the preliminary introduction in college.

As a young engineer,

a. Work under experienced, successful executive engineers, design engineers, research engineers and construction engineers.

b. Work on every phase of a project covering every activity of the Engineering Profession only long enough to grasp firmly the principles involved.

c. Simultaneously while gaining experience, study intensively the literature on each phase of your current engineering endeavors.

d. From the lessons learned from this rigorous plan, expand and apply the results to other fields such as professional and technical society, community service and similar activities.

e. Prepare, first, technical discussions of the various phases of engineering work you encounter, and second, general discussions of the professional and social aspects of an engineer's part in both private and public service projects.

f. Finally after completing the experience outlined and after participating in the various activities, you undoubtedly will become a successful executive, design, research or construction engineer. In such a position your education and development will continue.

You will note that this suggestion may be considered an ideal method for personal development in the engineering profession. You can find many reasons, and excuses, for not following such a method. The outline will have served its purpose, however, if it indicates to you that an engineer's education and his preparation for responsibility are not wrapped up in a four, five or six year college course but are activities continuing throughout a life time.

* "The Second Mile" by William E. Wickenden.

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YOUNG ENGINEERS RECOGNIZED



1. The Madison County Chapter I.S.P.E. held its Recognition Dinner in Edwardsville October 14th. Seated left to right, Frank Edwards, President of I.S.P.E., John H. Knottnerus, President of Madison Chapter; Robert Cunningham; Cliff Abrahams, Membership Chairman; Ned Wuellner; and standing, Morgan Corlew and Charles Sheppard, Secretary-Treasurer.

2. Wives of the newly registered professional engineers at Dixon were recognized for their efforts in "pushing husbands through" their examinations. Left to right are Mrs. Lucius Donkle, Mrs. Jackson Decker, Mrs. Robert Craven; Mrs. John Heck and Mrs. Harold Wendler.

3. The new professional engineers who were honored at the Dixon Recognition Dinner are, left to right, Jackson Decker, Lucius Donkle, John Heck, Harold Wendler and Robert Craven.

4. A group picture of 90 newly Registered Professional Engineers honored at the Chicago Engineers Club October 9.

5. Left to right: Al Osterling, Vice-President, Rock River Chapter; Mrs. Osterling; Mrs. A. H. Ferger; A. H. Ferger, President, Rock River Chapter, and C. J. McLean, National Director I.S.P.E.

6. Representatives of engineering societies present at the Chicago Engineers' Club Recognition Dinner for newly registered professional engineers. Front, left to right, John Duba, President of the Illinois Engineering Council; F. A. Cox; Terry Glenn, President of Woman's Council of Engineers, Chicago Section; W. R. Martson. Back row, M. V. Maxwell, R. L. Kennedy, Stephen Bushman, Albert L. Forde, and F. W. Edwards, President of I.S.P.E.

The Rock River Chapter of I.S.P.E. kicked off the season's series of Recognition Dinners to honor newly registered professional engineers in the State of Illinois. The Dixon Meeting had five young registrants who were extended recognition for having successfully completed their examinations for professional engineer's license. Mr. C. J. McLean, Chief Hydraulic Engineer for Commonwealth Edison Company in Chicago, was the featured speaker at the Dixon dinner. He told the young engineers that there are a series of mile-posts in their careers which must be met or else by-passed with shortcuts. The first important mile-post after completion of college training and successful registration is that of the young engineer's professional society. Mr. McLean urged that to be a well-rounded professional engineer is necessary to be active in the technical and professional societies for engineers. He used figures which very convincingly conveyed the idea that an engineer cannot afford not to belong to his professional society. It was pointed out that the investment in the engineer's education is such that it is to the interest of each individual to help make the society strong in order to protect the investment in the engineer's professional status.



Members of the professional engineers Examining Board are shown with Judge Vera M. Binks at the Chicago Recognition Dinner. Seated left to right are E. R. Whitehead, Chairman of the Examining Board; Judge Binks; and J. C. Marshall. Standing, F. E. Andrews, Ray V. Tilly and Melvin E. Amstutz.

At the Chicago Chapter Recognition Dinner on the following evening, October 9, approximately ninety additional young engineers were similarly honored. Mr. John Duba, President of the Illinois Engineering Council presided at the Chicago Meeting at the Engineers' Club. Miss Vera M. Binks, Director of the Registration and Education Department for the State of Illinois, was the principal speaker. She explained the necessity for registration and also encouraged the newly registered

engineers to participate in their professional society to help protect the Public's health, safety and welfare.

Mr. Frank Edwards, President of I.S.P.E., impressed upon the new engineers the importance of maintaining high professional standards and led the group in a unison recitation of the Engineers' Creed.

Other Recognition Dinners during the month of October were held by the Madison County Chapter at Edwardsville, October 14; and the Du Kane and Peoria-area Chapters on October 23. A joint Recognition Dinner was held at the Elks Club in Decatur for the Champaign, Capital and Central Illinois Chapters. Frank Edwards was the principal speaker at the Madison, Du Kane and Decatur Meetings.

Judge Evan Yonty was the principal speaker at the Peoria-area engineers' dinner.

Additional Recognition Dinners will be held during November and at later dates by other chapters and will be announced in the Coming Events Section of the ILLINOIS ENGINEER.

P.E. ACT VIOLATION TRIAL POSTPONED SECOND TIME

The trial of an individual in Chicago charged with violating the Illinois Professional Engineering Act has been continued again from October 16th to Thursday, November 13th. The case was originally set for September 17th in Branch 27 of the Chicago Municipal Court, but upon petition of the defendant was put off until October 16th. Counsel for the defendant presented a signed statement from a doctor stating that the defendant was unable to appear in Court at that time, whereupon, the Court reset the case for November 13th.

It seems that the defendant is stalling to attempt to wear out the complainants in hoping that the charges may ultimately be dropped.

In similar charges for violations of the P.E. Act in Arizona the Arizona Supreme Court upheld the lower courts and stated in effect that "A non-registered person who actually prepares drawings and designates materials and elements of construction for a building, although not representing or holding himself out as an 'architect' or 'Engineer,' is nevertheless unlawfully engaged in the practice of architecture or engineering, and as such subject to prosecution under the Arizona Registration Act. The unlawful nature of such practice is not lessened because of the fact that he did not 'design, represent, sell, or contribute any service with respect to the soundness or safety' of the building."

It seems that the Illinois Act can be similarly applied. In other jurisdictions decisions have stated that a registered professional engineer has a particular right to the designation and the standards which are required by law as a prerequisite to registration are distinguishing and that anyone who infringes upon those rights is violating the law and punishable as such. Anyone who attempts to perform engineering services are as a matter of law themselves subject to regulations.

EXECUTIVE SECRETARY'S COMMENTS

Two articles worthy of notice and comment are taken from the October Issue of the *Ohio Engineer*. The first was relative to an article in the September Issue of the *ILLINOIS ENGINEER* and is as follows:

Editor Asks Why . . .

Scanning the pages of the September *Illinois Engineer*, which just arrived, we noticed an article bearing exactly the same title as Clayton Stimmel's article—"Is Unionism of the Engineer in Conflict with Professionalism?"

Perusing further we saw that this was another of the three prize-winning papers on the subject, presented during the 1958 ASCE convention in Chicago. This one, by Raymond A. Heit, was preceded with the following comment by the editor of the *Illinois Engineer*:

. . . This is the third of three essays on this subject. None of the three authors are from Illinois. All attend engineering colleges in Ohio. Why?

The answer to the WHY is pointed out in a letter which was printed in the front of the same October Issue of the *Ohio Engineer*. The letter was to the Ohio Executive Secretary, Lloyd Chacey from Paul Robbins, Executive Director of the National Society of Professional Engineer. We quote the substance of the letter in the following paragraph.

"At a recent Utilization Conference, I was talking to the head of recruiting for one of the largest employers of engineers. In the course of the discussion we were commenting upon the desirability of engineering students coming out of colleges with a professional consciousness. This had been rather extensively discussed in the conference itself; and in this subsequent conversation with this recruiter he inquired of me as to whether or not I had any knowledge of why there seemed to be a greater professional consciousness in students recruited from Ohio colleges. I pointed out that this was the one state where student chapters were aggressively encouraged and that all of the engineering schools in Ohio had student chapters of the Ohio Society."

We wish to openly commend the Ohio Society for the excellent job they have done in instilling professional consciousness in the students of the Ohio engineering colleges; which, of course, reflects in a better professional engineer after he has started the practice of his profession. At the same time we should take a good long look at the reasons why Illinois does not have an aggressive program with student chapters in the four major engineering schools in Illinois. Perhaps, a partial answer was indicated in a recent conversation with a professor from one of the Illinois schools. I requested of this particular professor that he be on the "look-out" for good student papers which we might reprint in the *ILLINOIS ENGINEER*. His answer was, "We do not have time for the students to write papers. They are too busy for such activities." This answer caused a big question in my mind, and when I read what was being accomplished in Ohio, I felt somewhat embarrassed for our Illinois Society of Professional Engineers and for the engineering schools in Illinois which ap-

parently have not awakened to the realization of the need for stressing professional ethical aspects of engineering in their curriculum.

An engineer has a responsibility of high professional standards to his community, state and country equal to his responsibilities as an expert in the technical field which he is pursuing for a livelihood.

As a law student I recall very vividly that in almost all "technical" discussions matters of professional conduct were injected, and during the Senior year a specific course on professional ethics which familiarized all the students with the legal canons of ethics was a required course. We were so thoroughly instilled with the necessity of high standards of professional conduct during our formal college education that we will never forget the teaching relative to ethics. This same consciousness of ethical conduct should be just as important to the engineer as it has become to the legal and medical professions. If the engineer expects to be accepted at the same, or higher levels, as other professional groups it would seem that we in Illinois, particularly, should determine if our engineering schools are properly stressing professional ethics. Whatever a student learns and learns well will remain with him through the remainder of his career, and certainly the colleges are the logical places for a student to get a good foundation concerning the ethics of his profession. Certainly the State of Illinois has schools that are recognized as being among the best in the Country and should not need to apologize to anyone for the technical phases of engineering training. Also, these same schools can and should be recognized as highly for the professional ethics training they are for their technical proficiency. Perhaps the Engineering Society is as much or more at fault than the schools themselves for the apparent lack of stressing professional attitudes.

Henceforth, it will be a personal objective of your Executive Secretary to attempt to get strong student chapters of the Illinois Society of Professional Engineers into the engineering schools of Illinois and to attempt to get a re-evaluation of the needs for stressing professional conduct in the curriculums.

LATE BULLETIN

The I.S.P.E. Board at its meeting in
Springfield, Nov. 1, voted to hold
the next

ANNUAL CONVENTION
AT ROCKFORD

April 30, May 1 and 2, 1959

CHALLENGES IN MEMBERSHIP CAMPAIGN PROMISE PLENTY OF FUN



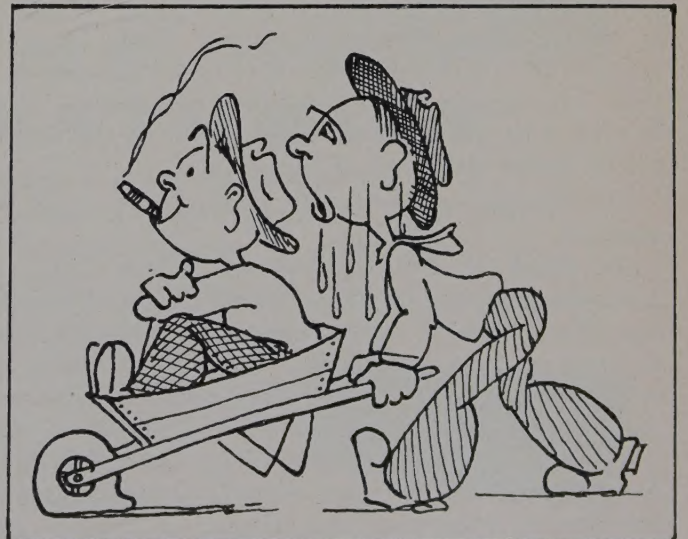
S.P.E. Membership Committee Meeting, October 18, 1958, Springfield—Front row, left to right, Secretary-Treasurer J. P. Murphy; Office Manager Mary Watt; State Membership Chairman H. F. Sommerschild; President Frank W. Edwards; Marcus Rice, Capital Chapter; Ralph Davis, Rock River Chapter. Center row, left to right, Sam Fischman, Chicago Chapter; E. W. Markwardt, St. Clair Chapter; Ralph Michael, Chicago Chapter; William T. Hooper, Jr., Lake County Chapter; Noel Thomas, Du Kane Chapter. Back row, left to right, Charles E. Zanzie, Chicago Chapter; Roger Ericson, Rockford Chapter; Thomas Landes, Peoriarea Chapter; Gene Bolo, Madison County Chapter; Frank Schotka, Jr., Rock River Chapter.

A renewed interest in the Membership Campaign was injected at the Chapter Chairmen's Meeting in Springfield on October 18. An all day session devoted to exploring group ideas to gain new Members in I. S. P. E. ended with a series of challenges and bets being made by various Chapter Chairmen. "Someone suggested his Chapter could beat another Chapter in the race for new Members, and to back up his challenge he agreed to give the other Chairman a wheelbarrow ride down the Main Street of the Convention city at the I. S. P. E. Annual Convention in May, or if the other party lost, he would be given a ride. The challenges started flying from all directions and it ended up with groups paired off as follows: Mark Rice of Capital Chapter versus George Sodeman of Champaign; Thomas N. Landes, Peoriarea versus Roger Ericson of Rockford; Lake County versus Joliet, Madison Chapter versus West Central, the proposed West Suburban Chapter versus Sauk Trail, and the North West Chapter versus North Shore. A three way race was started by the Du Kane, Rock River and St. Clair Chapters. The low man of the three would give the other two Chapters' Chairmen a ride. Chicago indicated a willingness to take on the combined percentage increases of Egyptian, Illinois Valley and Ambraw Chapters. From the heated discussion which pre-

vailed for several minutes everyone can be assured of a lot of fun resulting from these Membership contests at the next Annual Convention.

The latest figures revealed at the Membership Meeting shows approximately 2,450 Members in I. S. P. E. at the present time. At the start of the Membership drive in May there were 2,094. It was reported that

(continued on next page)



the Introductory Memberships were being accepted for newly registered engineers in increasing numbers. As of October 17th the following response to invitations had been received and processed.

	Rec'd & Processed	Per cent
180 letters to P. E.'s sent	109	60.6
20 letters to Land Surveyors sent	4	20.0
294 letters to EIT's sent	117	39.8
100 follow-up letters to P. E.'s not responding sent		
231 follow-up letters to EIT's not responding sent		
47 letters to Structural Engineers sent	3	6.4
541 potential Introductory Memberships	233	43.1

Several excellent ideas were presented; which, if carried out properly, could result in reaching the goal of 2,000 new Members during the current year, which ends prior to the next convention in May. Better and more regular programs were suggested as a means of keeping the interest of the new Introductory Members, as well as serving as an incentive to old registered engineers who have not become Members.

Other suggestions given were that more personal contacts be made with team captains in the various chapters and that small committees be designated to call on the leaders in industrial plants to encourage industry to promote engineer Membership in I. S. P. E.

The third major factor in promoting new Members, of course, was to assist in the establishment of new chapters in centers which would better serve a greater number of engineers.

PROMINENT SPEAKERS SCHEDULED

Dr. Clark A. Dunn, P.E., President of the N.S.P.E., Oklahoma State University, will make two speaking engagements in the Chicago area November 12 and 13. On the evening of November 12, Dr. Dunn will speak for the student chapter representatives of engineering societies at the Northwestern Technological Institute. On Thursday evening, November 13, Dr. Dunn will speak at the monthly meeting of the Chicago Chapter of I.S.P.E. at the Chicago Engineers' Club. In both speeches Dr. Dunn will speak on subjects of timely interest to young engineers and prospective engineers in keeping with the N.S.P.E. theme of young engineer's month during the month of November.

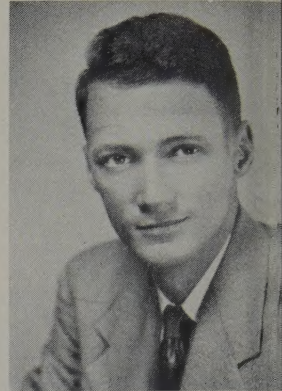
All engineers are invited to attend either, or both, meetings.

Dr. Frank K. Pittman, Director of the Office of Industrial Development of the Atomic Energy Commission, Washington, D. C., will speak at a public meeting in Decatur, Illinois November 13th. The meeting is to be at the Stephen Decatur High School Auditorium sponsored by the Decatur Association of Commerce and Industry. Dr. Pittman's subject will be "Atomic Energy in Industry." Engineers are cordially invited to attend this meeting, which starts at 7:30 P.M.

OUTSTANDING YOUNG MAN NOMINEE

Theodore W. Van Zelst, Registered Professional Engineer, was recently named one of the Ten Outstanding Young Men in the Chicagoland area by the Chicago Junior Chamber of Commerce. The ten were selected for their contributions to their professions and the general welfare of the people.

Van Zelst is President of Soiltest, Inc., manufacturer of engineering test apparatus for soils, concrete and asphalt. His business has grown from an idea in 1946 to the present business which is the largest of its kind in the world. Testing equipment manufactured by Soiltest is used in over 4000 laboratories in 105

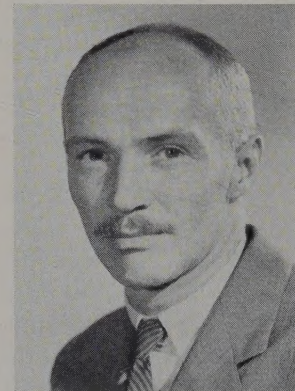


T. W. VAN ZELST

countries. Van Zelst has lectured extensively abroad and is the publisher of an engineering newsletter, *The Testing World*, which has an international circulation of 75,000 copies.

Van Zelst has been a member of the Illinois Society of Professional Engineers since 1951, and is Active with the Chicago Chapter. His P.E. Registration number is 16179.

Appointment of James J. Steur to the newly created post of Marketing Director of Soiltest, Inc. was announced recently by Theodore Van Zelst, president of the



J. J. STEUR

firm. The company, which also maintains offices in New York, is the leading manufacturer of apparatus for the physical testing of soils, concrete and asphalt, and has sales representatives in 9 countries of the world. The rapid growth of the engineering testing field, and the consequent demand for more testing equipment necessitates expansion of the managerial staff, Mr. Van Zelst stated.

Mr. Steur brings to his new position a wealth of experience in foreign marketing. Prior to joining the staff of Soiltest, Inc., he headed his own export firm, J. A. C. Steur & Co., Inc., in New York, which dealt with nearly every country in the world.

Mr. Steur is no stranger to soil mechanics. During his five years in the Corps of Engineers of the Royal Netherlands Army, where he attained the rank of captain, his company was engaged in the rehabilitation and building of roads and airfields in Indonesia which were neglected or destroyed during World War I.

Mr. Steur will make his headquarters at the New York office of Soiltest, Inc. located at 60 East Forty-second Street.

— 2000 —

Dear Fellow Member:

It is obvious that we may not realize our goal of 2000 new members for this year unless drastic improvement is made in our campaign.

Really now, don't you think it would be wonderful if we did double our membership? Surely the only answer you can give to this question is, "Yes." There can be no other answer from the member who is sold on the philosophy of I.S.P.E. and who is looking forward to the day when it will be the most potent force in the state for the advancement of the engineering profession.

Even the thought of this prospect should inspire us to solicit the interest of all our engineer friends in the Society. Have you obtained your application for a new member?

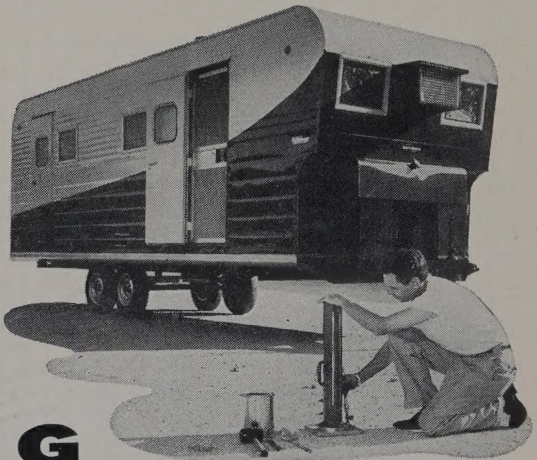
Please accept this as a personal responsibility. We need your help. Your cooperation will make it possible to do the job.

Your Membership Committee

— 2000 —

ECONOMY...

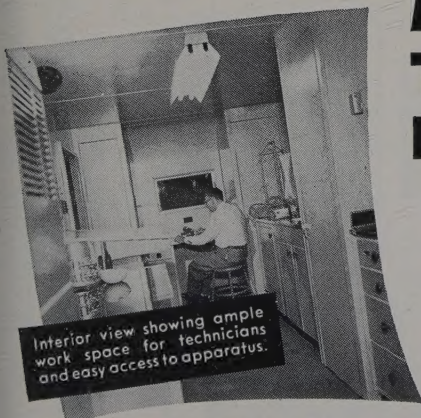
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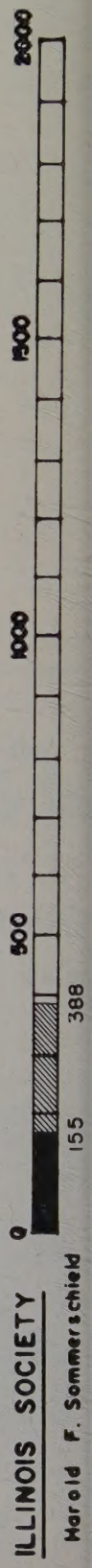
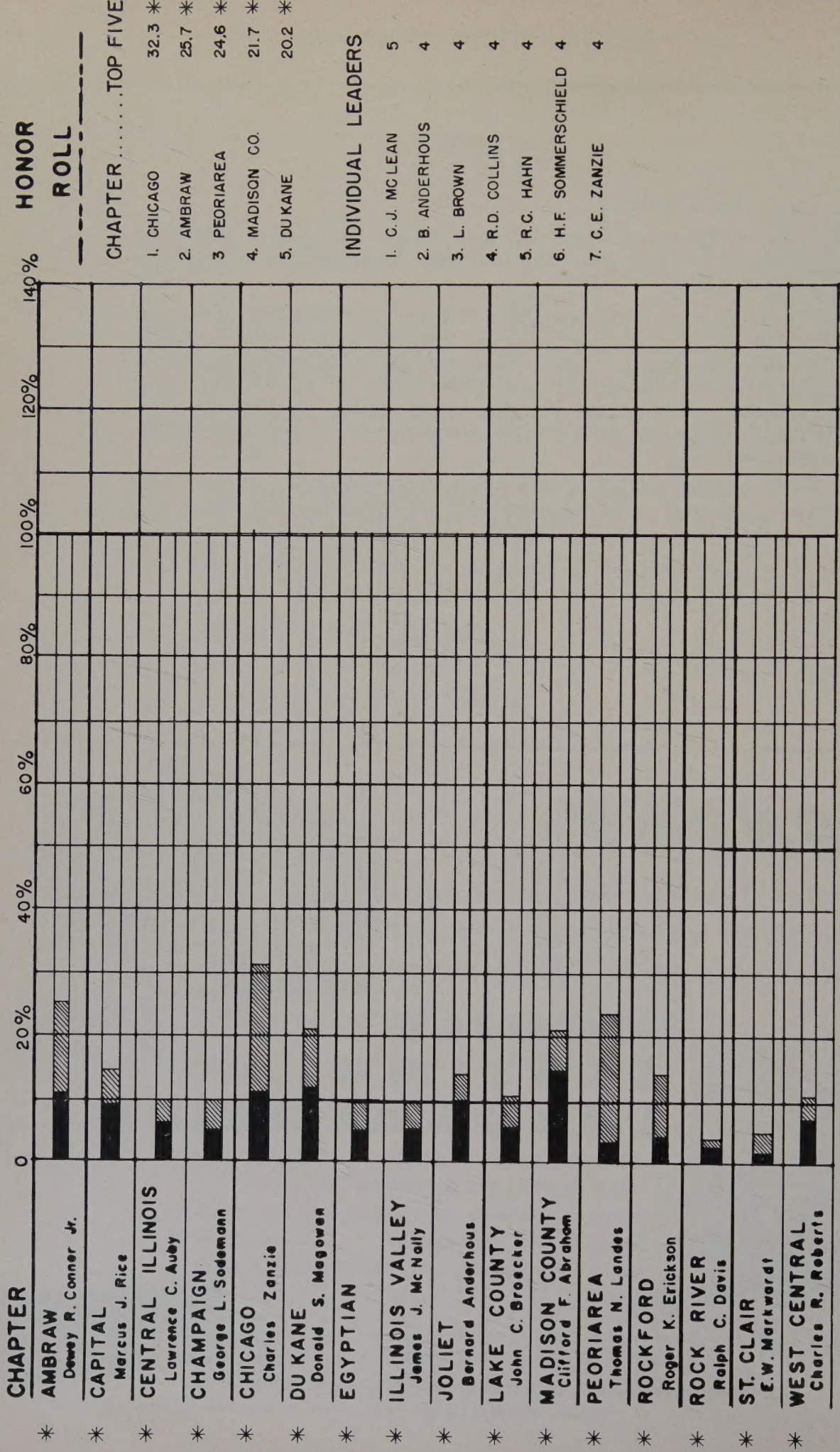
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Date.....

to the Board of Direction of the
Illinois Society of Professional Engineers:

I hereby apply for admission to the Society as a
National, State, E-I-T, or Student
member. If admitted, I agree to comply with the terms of the Constitution
and the Code of Ethics of the Society, and wish to be enrolled in the
..... Chapter.

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3. Business Affiliation..... Position.....
4. Business Address..... Street City State Phone..... ☐
5. Registration..... Reg. Number.....
(Type of Certificate: Prof. Eng., Struct., etc. State Issued)
6. Engineering Field.....
(Civil, Electrical, Mechanical, etc.)
7. Technical Society Affiliations and Grade of Membership.....
8. Birth..... Date Place Age Sex
9. Education..... Years School Date of Graduation Degree Obtained
10. Recommended by..... Signature.....

II. If you are NOT REGISTERED as a professional engineer, structural engineer or an E-I-T, complete the balance of the application form.

Names, addresses, and professional connections of three persons who may be consulted concerning my qualifications (preferably professional engineers who are members of this Society; action will be expedited by accompanying this application with the letters of reference).

1. Name Title Address Member NSPE-ISPE
2.
3.

NOW WE ARE NINETEEN

The I.S.P.E. now has nineteen chapters. For many years the Society maintained its activities through sixteen chapter areas throughout the State. After considerable work on the part of the Chicago and Joliet Chapters and on the basis of surveys made by those Chapters it was found that a great number of non-members of I.S.P.E. indicated that if suburban area chapters were organized they would come into the Society. On September 10 the Sauk Trail Chapter of I.S.P.E. was organized in Chicago Heights. (This organizational meeting was reported in the September Issue of ILLINOIS ENGINEER.) On September 30 a meeting was held in Skokie, Illinois to determine the needs for a chapter, or chapters, in the north Cook County area, and two new chapters resulted from this meeting. One will be known as the North West Chapter and the other will be the North Shore Chapter. Approximately two thirds of those attending the Skokie meeting were not members of I.S.P.E., but the majority indicated their willingness by submitting applications for membership.



Shown collecting money for the Organizational Dinner at Skokie September 30th, Messrs. W. F. O'Brien and J. F. Koenen.

Temporary chapter Officers were elected at the Sauk Trail Meeting. Upon a motion of those in Attendance in Skokie it was voted to allow Linas Brown, President of the Chicago Chapter, to appoint temporary Officers to guide the two chapters until January, when it is planned to hold a chapter charter presentation meeting and formally elect Officers for 1959.

A petition for a fourth new chapter has been completed for another suburban area chapter in the west part of Cook County in and around La Grange Park and Hinsdale. It is contemplated that this West area chapter will complete organizational requirements during December and will be ready for charter presentation ceremonies soon after the first of the year.

Other areas in which there seems to be a need for new chapters are Kankakee, Quincy, Bloomington, the Robinson, Lawrenceville, and Olney areas, the Mattoon, Charleston, Paris area and Danville. If the interest continues to increase and a strong demand is made for new chapters in these areas, it is anticipated that there will likely be at least twenty-five chapters in I. S. P. E. by the time of the 1959 Convention in May.

ANNUAL LADIES' NIGHT FEATURE OF OCTOBER MEETING

Joliet Chapter held its Annual Ladies' Night at Merichka's Restaurant Wednesday evening, October 22.

Miss Helen Nowak, Secretary for Socony Mobile Oil Company, presented the "Magic Suitcase." "Magic Suitcase" is a discussion of various items derived from oil—such items as PLASTICS, WONDER FABRIC and SELECTIVE DYEING. Miss Nowak also gave a demonstration of RUBBER MAKING. The program, which was planned for its particular interest to the ladies, was sponsored by the Standard Oil Company.

Mr. Paul Brummond, Corporation Executive Council and Mr. Bernard Prola, City Engineer, appeared before the executive committee at 8:15 p.m. to discuss the "Joliet Case" and the action taken by the State Board. Mr. Brummond carefully reviewed the opinion of the attorneys consulted by the State Society and asked several pertinent questions. Mr. Brown reviewed the history of the entire incident for Mr. Brummond and Mr. Prola and considerable discussion ensued. In the end, a general understanding was reached on the proper method of securing engineering services. Mr. Brummond was very co-operative and helpful about the whole matter.

J. R. GATES, Secretary



Officers and Board Members of the St. Clair Ladies Auxiliary, left to right, Mrs. William Keeley; Mrs. Arthur Feickert, President of the Auxiliary; and Mrs. Joseph Goldenberg.

Mr. Bill Russell of the Standard Concrete Pipe Company, Springfield sponsored a cocktail hour prior to the Capital-Champaign-Central Illinois Recognition Dinner at Decatur on October 28. The refreshments were an enjoyable addition to the program and special thanks are extended to Mr. Russell and his Company for their hospitality.



ives of professional engineers who attended a Rock River Recognition Dinner at Dixon on October 7th are: Front Row, Mesdames Harry Conroy, Colin Schroeder, Harold Wendler, Tom Gazda, Dean Compher, Howard Morey, Al Osterling, Robert Craven and John Beck. Back Row, Mesdames, H. W. Donaldson, Robert Hofmann, Don Huffman, Jack Decker, Chester Glausen, L. C. Cappa, Earl Basman, Al Ferger, Carl Holtman, Joe Conroy, Don Anderson and Lou Donkle.

PUBLIC RELATIONS COMMITTEE PLANS PROGRAM

The Public Relations Committee with Al Osterling as Chairman met in Springfield, October 18th to plan its program for the coming months. One item which the committee decided to place particular emphasis upon was the establishment of a Speaker's Bureau to be coordinated through the State office. It is hoped that a coordinated Speaker's Bureau will tend to provide the most outstanding speakers for the different areas of the state; which, in turn, will assist the Chapter in providing more interesting programs. For example, if a National figure should happen to be in the area to speak to a non-engineer organization, with long range planning and coordination it is possible that an outstanding figure could be encouraged to spend additional time and visit engineer chapters in the immediate areas in which he might be visiting.

The committee is planning for a coordinated effort to promote Engineers' Week, which is to be held nationally February 22-28.



Congressman Melvin Price, representing the 24th Congressional District in Illinois, spoke to the St. Clair Chapter on the subject of Developments in the Missile Field in East St. Louis on October 15th. Shown left to right are Congressman Price; Mr. Melvin Dobbs, President of the St. Clair Chapter; and Mr. Horace Brown, Program Chairman.

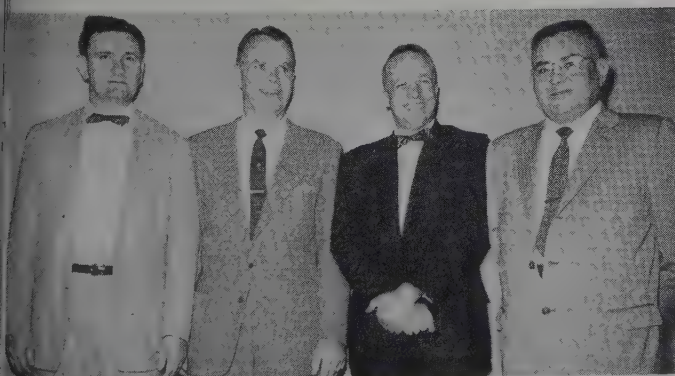
NOTICE TO ALL I.S.P.E. MEMBERS

The proposed new Constitution and By laws for Illinois Society of Professional Engineers will be printed in the December issue of the ILLINOIS ENGINEER. It will be in its Final Draft form for you to vote upon.

The Constitution and By laws Committee has done an excellent job in studying the recommended changes to the Constitution and By laws in an effort to reconcile and incorporate as many of the suggested changes as possible to make them a more workable and expansive document by which the Society will be governed.

A ballot will be included with the ballot of nominees for election of 1959-60 officers in the December Dues notice. Please return your ballots immediately.

Again we repeat—The revised Constitution and By laws will be printed in the ILLINOIS ENGINEER for December and will NOT be enclosed with your ballot.



Left to right: Larry Goddard, Vern Hudson, Assistant to the President; Al Osterling, Public Relations Chairman, and Phil Baur.

The Decatur engineers held their third annual Dinner Dance at the Orlando Hotel Saturday evening, October 18.

In the pictures below are shown some of the engineers and their wives enjoying themselves at this annual affair.



1. Seated at the head table, left to right, are Mr. Warren Hagan, Program Chairman for the Dinner Dance, and Mrs. Hagan; Mrs. Larry Goddard, wife of I.S.P.E. Executive Secretary; Mr. Gilbert Henning, President of Central Illinois Chapter I.S.P.E.; Mrs. Henning; Mr. William Watt and Mrs. Watt, I.S.P.E. Office Manager; Mrs. A. W. Neureuther and Andy Neureuther, Past President of I.S.P.E.

2. Left to right are Mrs. and Mr. William Francis; Mrs. and Mr. Walter Sherrer; Mrs. and Mr. Robert Kopetz. Mrs. Kopetz is

President of the Ladies' Auxiliary of the Central Illinois Chapter. 3. The "long" and "short" of dancing couples were Mr. and Mrs. Joe Shattaman and Mr. and Mrs. A. A. Brensley.

4. Mr. and Mrs. Lloyd Jansen and Mrs. and Mr. Robert Sari.

5. Sitting out a portion of the dance are, left to right, Dr. D. Wurth, Mr. and Mrs. John Frisch; Mrs. and Mr. Lou Snels; Mrs. Dean Wurth and Mrs. and Mr. Dwuane Chicoine.

6. Dancing are Mr. and Mrs. Bill Blank.

CAPITAL CHAPTER CHATTER

The September 23, 1958 meeting of Capital Chapter was held at the Moose Lodge, Jacksonville. Thirty-four members and guests attended the dinner and business meeting.

After those present had voted to dispense with the reading of the minutes, President Brantley made announcements about the October meeting (Joint Recognition Dinner at Decatur) and the November meeting (Young Engineers Month meeting of which Charles Marr is Chairman).

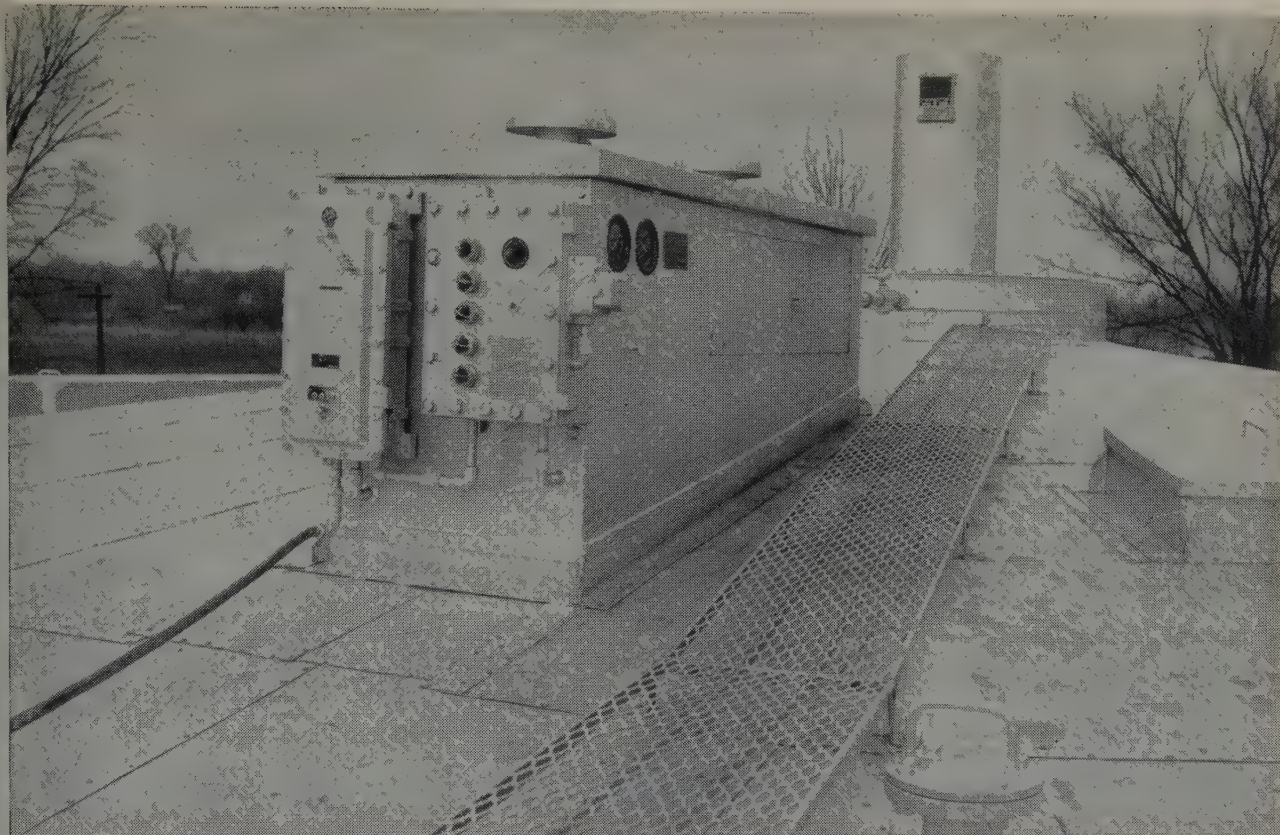
President Brantley then made a few comments about the controversial issue of whether only public employed personnel should handle resident supervision of Interstate Highway projects. He reported that such a policy had been adopted by the Bureau of Public Roads and that at the last Annual Meeting, the I.S.P.E. Board of Direction had authorized the National representatives to take up the matter through N.S.P.E. asking the Bureau to reconsider this policy. N.S.P.E. subsequently referred the matter to functional groups for engineers in private practice and engineers in Government.

Recently, President Brantley related, the Illinois As-

sociation of Highway Engineers printed an editorial criticizing I.S.P.E. for the action taken at the Annual Meeting. I.S.P.E. President Frank Edwards appeared before a meeting of the Highway Engineers to explain the stand taken by I.S.P.E., but found that the group's attitude toward the matter was unshakable. The Ambrose Chapter has passed a resolution asking the Board of Direction to rescind the directive given at the Annual Meeting.

L. D. Hudson commented on his reason for voting against the directive. He compared the problem to that of construction supervision on waterworks and sewerage projects in Illinois where nearly all of the supervision is done by consultants and none by the Department of Public Health. He also pointed to the shortage of personnel in the public agencies which he believed would prevent adequate handling of supervision if it is done only by public personnel.

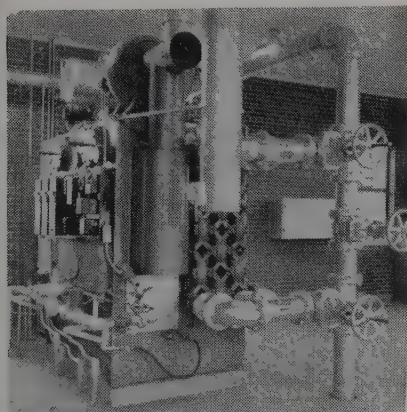
Art Kessel then commented on his voting for the referral. He said that many public employees have taken the attitude that the consultants are not competent to do the construction supervision, but that he had felt that merely being publicly employed endowed a person with any super qualities. (continued on page



This P.F.T.-Pearth Gas Recirculation System mounted on a 70' P.F.T. Floating Cover is part of the new "controlled digestion" system just added to the Decatur, Illinois sewage treatment plant. Design of plant by Warren & Van Praag, Consulting Engineers, Decatur.

Decatur, Illinois installs complete modern P.F.T. "Controlled Digestion" system

Unusual industrial and population growth has called for the modernization and expansion of Decatur's sewage treatment plant three times in recent years. Each time Decatur has selected P.F.T. equipment.



Decatur's new P.F.T. No. 750 Gas Fired Heater and Heat Exchanger, with accessory group B, controls, provides full automatic digester temperature control.

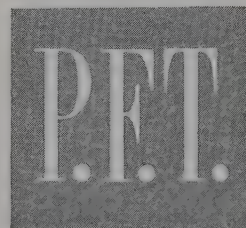
The P.F.T. equipment furnished for the most recent expansion is a new digestion system which includes: a 70' P.F.T. Floating Cover with prefabricated aluminum roofing; the P.F.T.-Pearth gas recirculation system and Model 750 Digestion Heater and Heat Exchanger shown; plus a complete new system of gas piping with P.F.T. gas safety equipment.

The P.F.T.-Pearth gas recirculation system includes a gas compressor rated to deliver 150 cfm at 10 psi powered with a 10 hp motor. Controls are provided to automatically discharge to each of 4 peripheral discharge wells in sequence.

The wells are equally spaced around the cover extending to a depth of approximately 10 feet below the liquid level in the tank. The compressor and low and high pressure bypass controls are mounted on the floating cover in an insulated housing.

P.F.T.-Pearth gas recirculation provides the most effective means of controlling scum formations. This allows the use of the full Digester capacity. Combined with close temperature control with a P.F.T. Heater, rapid and complete digestion is assured. Decatur's new "controlled digestion" system is now geared to meet the needs of this fast growing community.

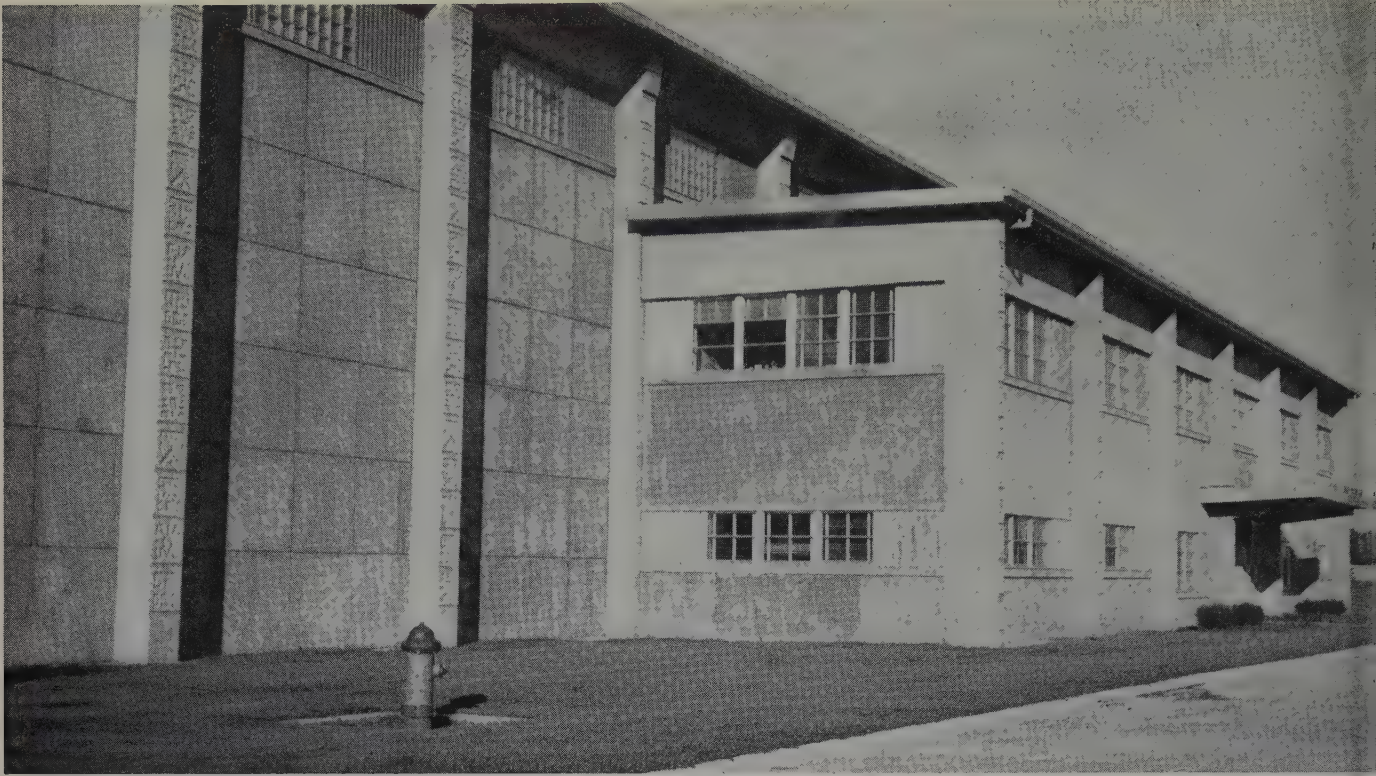
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ENGINEERS VISIT PORTLAND CEMENT LABORATORIES



In the construction of its new Laboratories it was only natural that the Association should practice what it has preached. The exterior walls of the two buildings are of architectural concrete, the frames and floors of reinforced concrete. The interior walls are of concrete masonry. Shown above is one of the concrete buildings which houses the new Portland Cement Association laboratories.

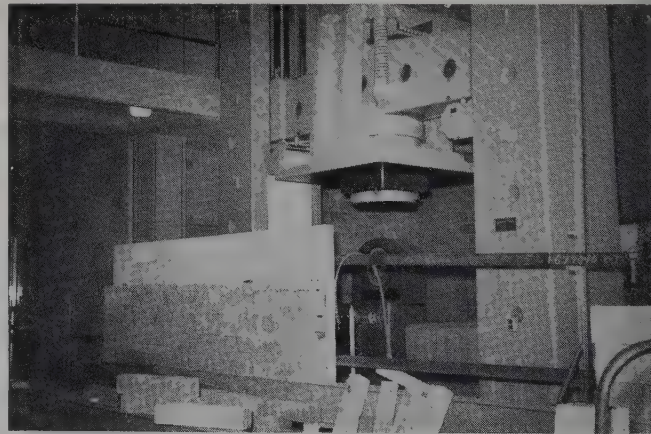
On September 30th Members of the Chicago Chapter of I.S.P.E. visited the new \$3,000,000 Portland Cement Association laboratories in Skokie, northwest Chicago suburb.

The Association's new laboratories provide enlarged facilities for the research and development phases of its manifold program. This work has contributed much to cement and concrete technology and to progress in the construction field. The labs are the largest and most completely equipped in the world devoted exclusively to research on cement and concrete.

The variety of work in the Laboratories is as diverse as are the uses of Portland cement and concrete. Apparatus delicate enough to weigh or measure dust from a butterfly's wings and huge machines powerful enough to crush a paving slab or twist a girder are required.

Simulated conditions under which concrete structures must serve under widely different conditions of climate and use are provided in the testing apparatus used in the laboratories. For example, in durability tests, specimens are subjected to moist heat, dry heat and severe cold; to alternate cycles of freezing and thawing, such as occur in areas where arctic temperatures are encountered; and cycles of heating and drying, cooling and soaking, such as occur when rain falls on pavements or other structures that have been exposed to a broiling summer sun. In strength tests, machines rapidly determine the ability of the specimens to withstand the racking, bending, pulling and crushing forces to which concrete is often subjected.

The Portland Cement Association is a national, not-for-profit, unincorporated organization to improve and extend the uses of portland cement and concrete. Established with its main offices in Chicago since 1916, the Association is voluntarily supported by its member companies which make financial contributions on the basis of their cement shipments. They have 67 member companies, widely spread geographically and operating 11 separate plants, which produce about nine-tenths of the portland cement used in the United States and Canada.



This huge million-pound compression testing machine can crush a paving slab, yet is calibrated so delicately that it can measure the pressure needed to shatter a watch crystal. The machine is needed in studies of the strength of concrete columns, beams and slabs, and will accommodate specimens up to 30 ft. in length, 10 ft. in width and 15 ft. in height.



Shown registering at Information Desk of the Portland Cement Laboratory, left to right, Frank J. Andel; C. J. McLean; Receptionist, Rosemary Racettes; John Housiaux, E. G. Koehler; and C. Ellis.

The Association's work consists of four principal parts: Scientific research in the field of portland cement and concrete; developments of new and improved cementing products and methods; promotion, educational work and technical service to extend the uses of portland cement and to improve concrete quality; and accident prevention work to encourage safety in the plants of its member companies.

To carry out this program, the Association maintains a general headquarters staff of more than 180 scientists, engineers, architects and writers, and a field organization of more than 300 engineers, architects and farm specialists working out of 26 district offices to serve cement users.

General headquarters coordinates and gives direction to the program and develops the required scientific and technical information. The field organization uses this material in direct contacts with the public.

Through its Accident Prevention Bureau, the Association gives leadership to the safety program of its member companies. In the last quarter century this safety work has been instrumental in reducing the number of accidents in member company plants by approximately 83 per cent, until today the cement industry is one of the safest of all heavy industries. The Portland Cement Association safety trophy, awarded annually since 1924 to cement mills operating without lost-time accidents,



This new gas furnace will soon be ready for use in testing concrete specimens under extreme degrees of heat.

has been proudly won by 149 plants operating a total of 790 accident-free years.

A few of the principal development projects of the Association have included: sound engineering design for concrete pavements, which has helped in the development of America's network of concrete highways; soil-cement for low-cost, light-traffic roads, streets and airports and for other uses; pressure grouting to stabilize railway and highway subgrades, fills and tunnels, and reduce track maintenance expense; new methods of concrete house building; new methods of making colored concrete, and special precast concrete products.

CAPITAL CHATTER

(continued from page 12)

At this point Ihlenfeldt commented that he felt the intent of the I.S.P.E. action had been misunderstood.

Murphy likened the action not to allow construction supervision by consultants to action taken earlier regarding the hiring of engineers away from public bodies. He commented that action had closed the door to an area of employment to those taking jobs with public bodies. He said the Bureau of Public Roads had since rescinded that action. . . . Murphy stated that the action taken on construction supervision closes to many public administrators the use of private engineers, rather than leaving it to their discretion to use private engineers only when it is in the best interest of the public.

President Brantley suggested that the Chapter might want to take some action regarding the matter, either endorsing the action taken by the Board of Direction, or asking the Board to rescind their action. This action would, he said, indicate the stand our state representatives should take at subsequent Board meetings where the matter is discussed.

Hudson suggested that in such a matter as this, and considering the fact that only a small portion of the Chapter members was present, an informal vote by a show of hands might be more appropriate than a formal vote. Patterson suggested that there be no vote at all since the members present did not represent a good cross-section of the Chapter.

A motion was made by Kessel, seconded by Hudson, that the issue be explained in the Chatter, and that a vote be taken by a ballot to be returned by the members. Motion carried.

EDITOR'S NOTE: The Highway Engineer-Consulting controversy which resulted from I.S.P.E. Board action as reported above in the Capital Chapter report is presently being reviewed. I.S.P.E. President Frank Edwards appointed Ray Brichler of East St. Louis to be chairman of a special committee to study the Ambraw Resolution. Mr. Brichler is an engineer with a railway and has no interest in the matter and can guide the study in a wholly impartial manner. The Chairman of the Functional Sections for Engineers in Private Practice and the Highway Engineers Section have been asked to name two committee members from each section to work with the Chairman of the Special Committee. The recommendations of the committee will be submitted to the Board for its further consideration. The Illinois Association of Highway Engineers has been invited to name members to a standing Joint I.S.P.E.-I.A.H.E. Committee to study all future problems relating to Highway Engineers.

COMING EVENTS

Illinois Municipal League 45th Annual Conference, Springfield	Nov. 9-11
Chicago Chapter Eng. Club N.S.P.E. President Dunn Speaker	Nov. 13
St. Clair—Belleville, North Side Optimist	Nov. 13
Madison—Courthouse, Edwardsville	Nov. 18
West Central Chapter, Rock Island-Moline	Nov. 19
Lake County Chapter Recognition Dinner, Libertyville	Nov. 19
Joliet—Annual Meeting Election of Officers	Nov. 19
Central Illinois—Elks Building, Decatur	Nov. 20
DuKane Chapter, Elgin	Nov. 20
Illinois Valley Chapter	Nov. 25
Capital Chapter—Young Engineers Program, Springfield	Nov. 25
I.A.C.E. General Meeting, Springfield	Nov. 29
I.S.P.E. Executive Committee Meeting, Chicago	Dec. 6
Madison—Ladies' Night and Installation of Officers, Gun Club, Edwardsville	Dec. 9
Peoria—Individual Highlights in Career of the Older Engineer	Dec. 9
West Central—Kewanee	Dec. 10
Central Illinois—Election of Officers, Elks Building, Decatur	Dec. 11
St. Clair—Ladies' Night Banquet and Installation of Officers, Elks Club, Belleville	Dec. 13
DuKane—Ladies' Night (Program by Auxiliary)	Dec. 18
N.S.P.E. Winter Meeting, Dinkler-Tutwiler Hotel, Birmingham, Alabama	Feb. 19-21, 1959

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WHEN AMERICA BUILDS FOR ECONOMY . . . IT BUILDS WITH CONCRETE



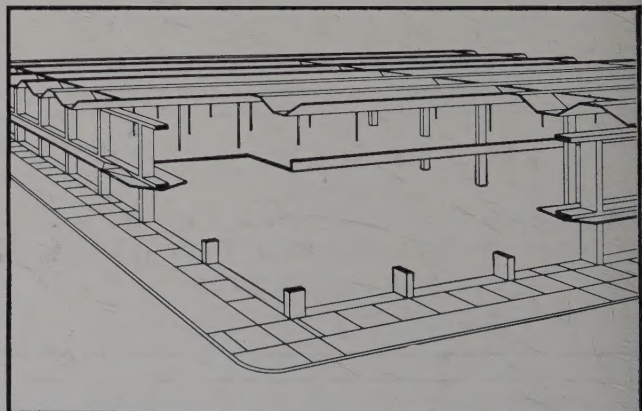
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**concrete folded plate roof achieves
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One of the basic requirements here was to achieve unobstructed floor space with economy. Architects Weed, Russell, Johnson & Associates found the answer by using a concrete shell in the form of a folded plate. This construction made it possible to span the entire floor area with only one interior row of columns . . . and suspend the second floor from the roof. The result: 163,715 square feet of *fully flexible* floor space, so important to any retail selling operation.

Folded plate design is, in itself, unique and interesting. And only concrete can give the added boldness of the wide, cantilevered overhang.

It's one more example of the way new uses of concrete are bringing big economies and added vitality to both conventional and modern architecture.



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Isometric view showing 125-foot c on c spacing of main columns. Floor slab is supported by 3-inch plates welded together to form a hanger. Hangers are spaced 25 feet c on c.

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111 West Washington Street, Chicago 2, Illinois

A national organization to improve and extend the uses of concrete